

## Page 1 of 1

All amounts are calculated in domestic currency.

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name											
PO25949 USD	1		VU-TW/M001 TW Metals								
			M304TR1.000W.049 f		10/6/2014	10/7/2014	40.0000	\$2.90	0.0000	0	\$116.00
	No		304 RD Tube 1.00 x .049W	f	40.0000	DES02		\$116.00	0.0000	0	
			m130551								
2			M4130NT0.500W.04 f		10/6/2014	10/7/2014	196.6670	\$2.50	0.0000	0	\$491.67
			M4130NT0.500W.04 f								
	No		4130 RD Tube .500 x.049W	f	200.0000	DES02		\$491.67	0.0000	0	
			m130551								
3			71401-45		10/6/2014	10/7/2014	1.0000	\$0.00	0.0000	0	\$0.00
			PROCUREMENT		1.0000	DES02		\$0.00	0.0000	0	
	No		QUALITY CLAUSES								
			m130551								
Total Received Quantity:										237.6670	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$607.67	
Total Balance Due Quantity:										3.3330	





**PACKING SLIP**

ORDER NO.: 60557239

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820    NET WGT: 66.304    REQ. DATE: 10/06/14    CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD    DART AEROSPACE LTD  
1270 ABERDEEN ST    1270 ABERDEEN ST  
HAWKSBURY ON    HAWKSBURY ON  
CANADA    CN K6A 1K7    ONTARIO CANADA    CN K6A 1K7

SALESPERSON: DONNA SMALLEY    SHIP BY: 10/01/14  
TERMS: NET 30 DAYS    VIA: COMMON CARRIER  
F.O.B.: SHIPPING POINT    FREIGHT: PREPAID  
CUST ORD NO.: PO25949    RELEASE NO.:  
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001	37056 SMLS CD 304/L A269 1 OD X .049 WA		17/24 FT
ORD QTY	INVOICE QTY	SHIPPED QTY	WT
40.000 FT	40.000 FT	40.000 FT	19.906
			PCS 2

PART#: M304TR1.000W.049  
\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*  
ECCN: 2B999.g    Export License: NLR    Expiration Date: 0/00/00  
PO:49307230 HT:YX1307689    PC: 2    CUSTOMER QTY: 40.000    UOM FT  
MLT:CHINA    MFG:CHINA    SLB/CL:3-95

0002	31954 SMLS CD 4130 RD 6736	1/2 X .049	17/24 FT
ORD QTY	INVOICE QTY	SHIPPED QTY	WT
200.000 FT	196.667 FT	196.667 FT	46.398
			PCS 10

PART#: M4130NT0.500W.049  
\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*  
ECCN: 9A991.d    Export License: NLR    Expiration Date: 0/00/00  
PO:49312295 HT:231777    PC: 10    CUSTOMER QTY: 196.667    UOM FT  
MLT:GERMANY    MFG:GERMANY    SLB/CL:1598358

BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
B	CARTON	2.000	76.000		20.5000	
		2.000	76.000			

BY: MS

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.





# PACKING SLIP

ORDER NO.: 60557239

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT:  
SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
CANADA CN K6A 1K7

66.304 REQ.DATE: 10/06/14 CONFIRMED  
SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY  
TERMS: NET 30 DAYS  
F.O.B.: SHIPPING POINT  
CUST ORD NO.: PO25949

SHIP BY: 10/01/14  
VIA: COMMON CARRIER  
FREIGHT: PREPAID  
RELEASE NO.:  
RECEIVING PHONE:

LINE ITEM DESCRIPTION  
RT 000-

WIDTH LENGTH  
UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

## THANK YOU FOR THIS ORDER

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**PACKING SLIP**

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SHIP TO:  
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ONTARIO CANADA

CN K6A 1K7

SALESPERSON: DONNA SMALLEY  
TERMS: NET 30 DAYS  
F.O.B.: SHIPPING POINT  
CUST ORD NO.: PO25949  
VIA: COMMON CARRIER  
FREIGHT: PREPAID  
RELEASE NO.:  
RECEIVING PHONE:

SHIP BY: 10/01/14  
27 ENGLEHARD DRIVE  
MONROE TWP NJ 08831

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

**"CERTIFICATE OF CONFORMANCE"**

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk *Donna Smalley*

Date: 9/30/14

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.



PUFA™

Producer of Premium Stainless Steel Seamless Tubes

# MILL TEST REPORT

Purchaser.: TW METALS-Cranbury				Certificate No.: 14-5-45					
Contract No.: TWM P.O.No.: M49307230				Date of Issue.: 2014.5.7					
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-13/ASME SA213-13/ASTM A269-13 EAW							
Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit							
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity				
TP304/TP304L	YX1307-689	3-95	1" x 0.049" x 20'		Pieces	Quantity (ft)			
					60	1,200			
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00		
Ladle Analysis	0.016	0.72	0.030	0.001	0.38	18.42	8.10		
Product Analysis	0.022	0.66	0.030	0.001	0.44	18.57	8.19		
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (MPa)		Yield Strength (MPa)				
			Rm		Rp / 0.2%				
Requirements	≥35		≥515		≥205				
Test Results	63/64		650/660		280/290				
Test Item	Reduction of Area	Hardness	Cold Bend	Flaring	Flattening	Flange	P.M.I.		
	Z (%)		Test	Test	Test	Test	Test		
Requirements		HRB≤80		21%	e=0.09				
Test Results		78/80		Passed	Passed		OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426			ASTM A262 E	End Cut	Appearance			
Test Results	Passed			OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1221604

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-13
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Billets melt and pipes/tubes manufactured in China
- (10) All tubes 100% PMI tested
- (11) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA**

By:



*James Shi*

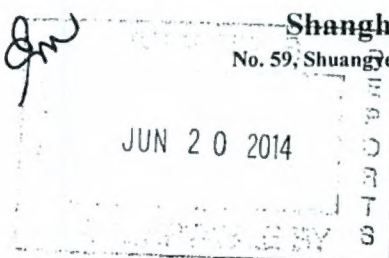
James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

**Shanghai Pufa Stainless Steel Pipe Factory**

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



DAS  
23  
9-89

14-10-7

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

# BENTELER

Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1  
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland  
TW Metals  
The Aboretum, Suite 204  
760 Constitution Drive  
EXTON PA 19341  
USA

Dokument-Nr.: 41-819412/001/P  
Document No.:  
Kunden-Bestell-Nr.: 46002112 TW M49312295  
Purchase Order No.:  
No. de commande du client:  
Benteler Auftrags-Nr.: 1598358  
Benteler Order No.:  
No. de commande Benteler:  
Versandanzeigen-Nr.: 4180529  
Dispatch Note No.:  
No. d'avis d'expédition:  
Produkt: NAHTLOSE STAHLROHRE  
Product: SEAMLESS STEEL TUBES  
Produit: TUBES D'ACIER SANS SOUDURE

Prüf-Nr.:  
Inspection No.:  
No. du certificat:  
Hersteller: Warmrohrwerk/Zieherei  
Manufacturer: (DIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TÜV NORD CERT)  
Producteur: (PED 97/23/EC CERTIFIED BY TÜV NORD SYSTEMS)



Herstellerzeichen:  
Manufacturer's brand:  
Marque du producteur:  
Stempel des Abnahmebeauftragten: WA  
Stamp of the inspection representative:  
Poinçon du contrôleur:

Stahlschmelzungsverfahren: ELEKTROSTAHL  
Steelmaking process: ELECTRIC FURNACE  
Procédé d'élaboration de l'acier: FOUR ELECTRIQUE

Lieferbedingungen: AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1

DAS 23 14-10-7 9-89

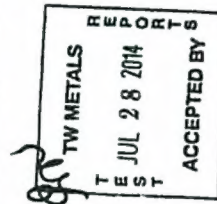
Maße - Toleranzen: straightness acc. to customer request, AMS 2253E-83, Aircraft Type, Seamless, Cold Finished

Stahlsorte: GRADE 4130, AMS 6360M and AMS 6371K

Lieferzustand: N

Produktkennzeichnung: FSD: BENTELER AMS-T-6736 B 1-MIL-T-6736 B 1-4130 N HEAT-NO. CD AQ S DIMENSIONS WA  
Product marking: GERMANY

Marquage du produit: AEZ = Ätzlinienbeschriftung, Etching ink marking, Gravure à l'encre . PK = Farbkennzeichnung, colour marking, marquage par couleur . FS = Farbschablonierung, point stencilling, marquage par peinture . FSD = Farbstrahldrucker, Colour jet printer, Imprimante à jet d'encre de couleur . LK = Laserkennzeichnung, Laser marking, Marquage laser . PKE = Etikettenkennzeichnung, tag marking, marquage sur étiquette . PS = Prägestempel, die stamp, marquage par poinçonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet d'encre .





**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**

INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-819412/001/P

Document No.:  
No. du document:

Blatt: 2 / 4

Page:  
Page:

Pos.	Stück	Maße	Länge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item	Number	Dimensions	Length	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste	Nombre	Dimensions	Longueur	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
			feet	lbs				
0005	120	0.500" O.D. * 0.049" WT. 17 FT - 24 FT	2362,20	560	231777			

**Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]**

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0005	231777	0,320	0,250	0,53	0,007	0,002	0,90	0,17	0,08	0,12

**Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]**

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0005	231777	0,300	0,250	0,53	0,007	0,002	0,92	0,16	0,08	0,12

**Prüfergebnisse / Test results / Résultats des essais**

Die Rohre wurden zerstörungsfrei geprüft:  
The tubes are non destructive tested:  
Les tubes ont passé un essai non destructif:

ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections;  
ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections;  
Notch depth: 0.30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)

Augensichtkontrolle:	PASSED	Materialverwechslungsprüfung:	PASSED	Maßkontrolle:	PASSED
Visual inspection:		Material conformity test:		Dimensions examination:	
Examen visuel:		Vérification de la nuance:		Vérification des dimensions:	

**Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques**

Die Probennahme erfolgte an Vielfachlängen.  
The sampling was carried out on multiple lengths.  
L'échantillonnage était réalisé aux longueurs multiples.

41-819412/001/P

Dokument-Nr.:

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

Document No.:

INSPECTION CERTIFICATE EN 10204-3.1

No. du document:

CERTIFICAT DE RECEPTION EN 10204-3.1

Zugversuch längs Vollprobe / Tensile test longitudinal Full section test specimen / Essai de traction longitudinale Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung	Einschnürung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation	Area reduction
Poste	No. de l'éprouvette	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement	Coefficient de striction
Anforderungen			mm	Rp 0,2 %	Rm	A2"	1. Formel
Requirements				PSI	PSI	%	1. Formula
Exigences				MIN 74985	MIN 95000	MIN 12	1. Formule
0005	000001	231777	12,74 X	1,24	97320	121977	16,00
0005	000002	231777	12,74 X	1,24	95435	118641	16,00
0005	000003	231777	12,74 X	1,24	97611	121252	16,00
0005	000004	231777	12,74 X	1,24	97465	121252	16,00
0005	000005	231777	12,74 X	1,24	97611	119366	16,00

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0005

acc. MIL-T-6736B / AMS-T-6736B, decarburization outside max. 0.23 mm, decarburization outside + inside max. 0.305 mm

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0005

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M and AMS 6371K, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany; see Attachment 1

Pos. / Item / Poste: 0005

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0005

Magnetic particle inspection: acc. to AMS 2301 G/2640, on prematerial

Pos. / Item / Poste: 0005

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204347, Fax: 204394





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO25949**

Purchase Order Date 9/29/2014

PO Print Date 9/29/2014

Page Number 1 of 2

Order From :  
TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

VU-TWM001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

YRC COLLECT

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR1.000W.049	304 RD Tube 1.00 x .049W	10/6/2014 Yes 10/6/2014		40.00 f	\$2.90	\$116.00
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269							
Line Total:							\$116.00
2	M4130NT0.500W.049	4130 RD Tube .500 x.049W	10/6/2014 Yes 10/6/2014		200.00 f 196.667.	\$2.50	\$500.00
MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374							
Line Total:							\$500.00

Note:

9/29/2014





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO25949

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Page Number 2 of 2

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US

VU-TWM001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

3 71401-45

PROCUREMENT  
QUALITY CLAUSES

10/6/2014

1.00

\$0.00

\$0.00

No

10/6/2014

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

8814-10-7

Line Total:

\$0.00

PO Total:

\$616.00

CLM

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr:

1

Change Date:

9/29/2014